AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application.

1-141 (canceled).

142. (previously presented) A cloned DNA of Human Immunodeficiency Virus

Type 1 (HIV-1), wherein the DNA comprises the sequence

CTCAATAAAGCTTGCCTTG, and the DNA comprises the sequence:

		5670 A	5680 AAGAGCAGAA	5690 GACAGTGGCA	5700 ATGAGAGTGA
5710	5720	5730	5740	5750	5760
AGGAGAAATA	TCAGCACTTG	TGGAGATGGG	GGTGGAAATG	GGGCACCATG	CTCCTTGGGA
5770	5780	5790	5800	5810	5820
TATTGATGAT	CTGTAGTGCT	ACAGAAAAAT	TGTGGGTCAC	AGTCTATTAT	GGGGTACCTG
5830	5840	5850	5860	5870	5880
TGTGGAAGGA	AGCAACCACC	ACTCTATTTT	GTGCATCAGA	TGCTAAAGCA	TATGATACAG
5890	5900	5910	5920	5930	5940
AGGTACATAA	TGTTTGGGCC	ACACATGCCT	GTGTACCCAC	AGACCCCAAC	CCACAAGAAG
5950	5960	5970		5990	6000
TAGTATTGGT	AAATGTGACA	GAAAATTTTA		AAATGACATG	GTAGAACAGA
6010	6020	6030	6040	6050	6060
TGCATGAGGA	TATAATCAGT	TTATGGGATC	AAAGCCTAAA	GCCATGTGTA	AAATTAACCC
6070	6080	6090		. 6110	6120
CACTCTGTGT	TAGTTTAAAG	TGCACTGATT		TACTAATACC	AATAGTAGTA
6130	6140	6150	6160	6170	6180
ATACCAATAG	TAGTAGCGGG	GAAATGATGA	TGGAGAAAGG	AGAGATAAAA	AACTGCTCTT
6190	6200	6210		6230	6240
TCAATATCAG	CACAAGCATA	AGAGGTAAGG		ATATGCATTT	TTTTATAAAC
6250	6260	6270	6230	6290	6300
TTGATATAAT	ACCAATAGAT	AATGATACTA	CCAGCTATAC	GTTGACAAGT	TGTAACACCT

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(6310	6320	6330	6340	6350	6360
CAGTCAT	TTAC	ACAGGCCTGT	CCAAAGGTAT	CCTTTGAGCC	AATTCCCATA	CATTATTGTG
	6370	6380	6390	6400	6410	6420
CCCCGGC	CTGG	TTTTGCGATT	CTAAAATGTA	ATAATAAGAC	GTTCAATGGA	ACAGGACCAT
·						
II	6430	6440		6460		6480
∥ GTACAAA	ATGT	CAGCACAGTA	CAATGTACAC	ATGGAATTAG	GCCAGTAGTA	TCAACTCAAC
		4-00		4=0.0	4-0.0	~ ~ . . .
ll ·	6490	6500	6510	6520	6530	6540
TGCTGTT	I'GAA	TGGCAGTCTA	GCAGAAGAAG	AGGTAGTAAT	TAGATCTGCC	AATTTCACAG
,	C	6560	CE70	CE 0.0	CF00	6600
li .	6550	6560 AACCATAATA	6570	6580	6590	
ACAAIGO	LIAA	AACCATAATA	GIACAGCIGA	ACCAATCIGI	AGAAATTAAT	IGIACAAGAC
	6610	6620	6630	6640	6650	6660
H		TACAAGAAAA				
CCAACA	ICAA	IACAAOAAAA	AUTATECUTA	TCCADADOO	ACCAGGGAGA	GCAIIIGIIA
	6670	6680	6690	6700	6710	6720
CAATAGG	GAAA	AATAGGAAAT				
	6730	6740	6750	6760	6770	6780
ATGCCAC	CTTT	AAAACAGATA	GCTAGCAAAT	TAAGAGAACA	ATTTGGAAAT	AATAAAACAA
6	6790	6800	6810	6820	6830	6840
TAATCTI	AATT	GCAATCCTCA	GGAGGGGACC	CAGAAATTGT	AACGCACAGT	TTTAATTGTG
6	6850	6860		6880	6890	6900
GAGGGGA	TTA	TTTCTACTGT	AATTCAACAC	AACTGTTTAA	TAGTACTTGG	TTTAATAGTA
	6910	6920		6940	6950	6960
CTTGGAG	GTAC	TGAAGGGTCA	AATAACACTG	AAGGAAGTGA	CACAATCACA	CTCCCATGCA
	6000	6000	6000	7000	7010	7000
	6970	6980	6990		7010	7020
GAATAAA	AACA	ATTTATAAAC	ATGTGGCAGG	AAGTAGGAAA	AGCAATGTAT	GCCCCTCCCA
_	7020	7040	7050	7060	7070	7080
		AATTAGATGT				
TCAGCGG	JACA	AATTAGATGT	ICAICAAAIA	TIACAGGGCT	GCIAIIAACA	AGAGATGGTG
_						
II -	7090	7100	7110	7120	7130	7140
		7100				7140
		7100 CAATGGGTCC				
GTAATAA	ACAA	CAATGGGTCC	GAGATCTTCA	GACCTGGAGG	AGGAGATATG	AGGGACAATT
GTAATAA	ACAA 7150	CAATGGGTCC 7160	GAGATCTTCA 7170	GACCTGGAGG 7180	AGGAGATATG 7190	AGGGACAATT 7200
GTAATAA	ACAA 7150	CAATGGGTCC	GAGATCTTCA 7170	GACCTGGAGG 7180	AGGAGATATG 7190	AGGGACAATT 7200
GTAATAA GGAGAAG	ACAA 7150	CAATGGGTCC 7160 ATTATATAAA	GAGATCTTCA 7170 TATAAAGTAG	GACCTGGAGG 7180	AGGAGATATG 7190 ACCATTAGGA	AGGGACAATT 7200
GTAATAA GGAGAAG	7150 GTGA 7210	CAATGGGTCC 7160 ATTATATAAA	GAGATCTTCA 7170 TATAAAGTAG 7230	GACCTGGAGG 7180 TAAAAATTGA 7240	AGGAGATATG 7190 ACCATTAGGA 7250	AGGGACAATT 7200 GTAGCACCCA 7260

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7270	7280	7290	7300	7310	7320
TCCTTGGGTT	CTTGGGAGCA	GCAGGAAGCA			ACGCTGACGG
7330	7340	7350	7360		7380
TACAGGCCAG	ACAATTATTG	TCTGGTATAG	TGCAGCAGCA	GAACAATTTG	CTGAGGGCTA
7390	7400	7410		7430	7440
TTGAGGCGCA	ACAGCATCTG	TTGCAACTCA	CAGTCTGGGG	CATCAAGCAG	CTCCAGGCAA
7450	7460	7470	7480	7490	7500
GAATCCTGGC	TGTGGAAAGA	TACCTAAAGG	ATCAACAGCT	CCTGGGGATT	TGGGGTTGCT
7510	7520 CATTTGCACC	7530	7540	7550	7560
CTGGAAAACT	CATTIGCACC	ACIGCIGIGC	CIIGGAAIGC	TAGTTGGAGT	AATAAATCIC
7570	7580 TTGGAATAAC	7590	7600	7610	7620
TGGAACAGAT	TIGGAATAAC	AIGACCIGGA	1GGAG1GGGA	CAGAGAAATT	AACAATTACA
7630	7640		7660		
CAAGC'I"I'AA'I'	ACATTCCTTA	A'I"I'GAAGAA'I'	CGAAAACCA	GCAAGAAAAG	AATGAACAAG
7690	7700	7710	7720	7730	7740
AATTATTGGA	ATTAGATAAA	TGGGCAAGTT	TGTGGAATTG	GTTTAACATA	ACAAATTGGC
7750	7760	7770	7780	7790	7800
TGTGGTATAT	AAAAATATTC	ATAATGATAG	TAGGAGGCTT	GGTAGGTTTA	AGAATAGTTT
7810	7820	7830		7850	7860
TTGCTGTACT	TTCTATAGTG	AATAGAGTTA	GGCAGGGATA	TTCACCATTA	TCGTTTCAGA
7870	7880		7900		7920
CCCACCTCCC	AACCCCGAGG	GGACCCGACA	GGCCCGAAGG	AATAGAAGAA	GAAGGTGGAG
7930	7940	7950		7970	7980
AGAGAGACAG	AGACAGATCC	ATTCGATTAG	TGAACGGATC	CTTAGCACTT	ATCTGGGACG
	8000				
ATCTGCGGAG	CCTTGTGCCT	CTTCAGCTAC	CACCGCTTGA	GAGACTTACT	CTTGATTGTA
8050	8060	8070	8080	8090	8100
ACGAGGATTG	TGGAACTTCT	GGGACGCAGG	GGGTGGGAAG	CCCTCAAATA	TTGGTGGAAT
8110	8120	8130			
CTCCTACAGT	ATTGGAGTCA	GGAACTAAAG	AA.		

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143. (previously presented) A cloned DNA of Human Immunodeficiency
Virus Type 1 (HIV-1), wherein the DNA comprises the sequence
CTCAATAAAGCTTGCCTTG, and the DNA comprises the sequence:

					5700 ATGAGAGTGA
5710 AGGAGAAATA	5720 TCAGCACTTG		5740 GGTGGAAATG		
5770	5780	5790	5800	5810	5820
TATTGATGAT	CTGTAGTGCT	ACAGAAAAAT	TGTGGGTCAC	AGTCTATTAT	GGGGTACCTG
5830	5840	5850	5860	5870	5880
TGTGGAAGGA	AGCAACCACC	ACTCTATTTT	GTGCATCAGA	TGCTAAAGCA	TATGATACAG
5890 AGGTACATAA	5900 TGTTTGGGCC		5920 GTGTACCCAC		
5950 TAGTATTGGT	5960 AAATGTGACA	5970 GAAAATTTTA	5980 ACATGTGGAA		
6010	6020	6030	6040	6050	6060
TGCATGAGGA	TATAATCAGT	TTATGGGATC	AAAGCCTAAA	GCCATGTGTA	AAATTAACCC
6070	6080	6090	6100	6110	6120
CACTCTGTGT	TAGTTTAAAG	TGCACTGATT	TGGGGAATGC	TACTAATACC	AATAGTAGTA
6130 ATACCAATAG	6140 TAGTAGCGGG		6160 TGGAGAAAGG	6170 AGAGATAAAA	
6190	6200	6210	6220	6230	6240
TCAATATCAG	CACAAGCATA	AGAGGTAAGG	TGCAGAAAGA	ATATGCATTT	TTTTATAAAC
6250	6260	6270	6230		6300
TTGATATAAT	ACCAATAGAT	AATGATACTA	CCAGCTATAC		TGTAACACCT
6310	6320	6330	6340	6350	6360
CAGTCATTAC	ACAGGCCTGT	CCAAAGGTAT	CCTTTGAGCC	AATTCCCATA	CATTATTGTG
6370 CCCCGGCTGG			6400 ATAATAAGAC		6420 ACAGGACCAT
6430 GTACAAATGT			6460 ATGGAATTAG		

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	6530	6520	6510	6500	6490
AATTTCACAG	TAGATCTGCC	AGGTAGTAAT	GCAGAAGAAG	TGGCAGTCTA	TGCTGTTGAA
6600	6590	6580	6570	6560	6550
TGTACAAGAC	AGAAATTAAT	ACCAATCTGT	GTACAGCTGA	AACCATAATA	ACAATGCTAA
	6650	6640	6630	6620	6610
GCATTTGTTA	ACCAGGGAGA	TCCAGAGGGG	AGTATCCGTA	TACAAGAAAA	CCAACAACAA
	6710	6700	6690	6680	6670
GCAAAATGGA	CATTAGTAGA	CACATTGTAA	ATGAGACAAG	AATAGGAAAT	CAATAGGAAA
6780	6770	6760	6750	6740	6730
AATAAAACAA	ATTTGGAAAT	TAAGAGAACA	GCTAGCAAAT	AAAACAGATA	ATGCCACTTT
6840	6830	6820	6810	6800	6790
TTTAATTGTG	AACGCACAGT	CAGAAATTGT	GGAGGGGACC	GCAATCCTCA	TAATCTTTAA
6900	6890	6880	6870	6860	6850
TTTAATAGTA	TAGTACTTGG	AACTGTTTAA	AATTCAACAC	TTTCTACTGT	GAGGGGAATT
6960	6950	6940	6930	6920	6910
CTCCCATGCA	CACAATCACA	AAGGAAGTGA	AATAACACTG	TGAAGGGTCA	CTTGGAGTAC
7020	7010	7000	6990	6980	6970
GCCCCTCCCA	AGCAATGTAT	AAGTAGGAAA	ATGTGGCAGG	ATTTATAAAC	GAATAAAACA
7080	7070	7060	7050	7040	7030
AGAGATGGTG	GCTATTAACA	TTACAGGGCT	TCATCAAATA	AATTAGATGT	TCAGCGGACA
7140	7130	7120	7110	7100	7090
	AGGAGATATG				
7200	7190	7180	7170	7160	7150
GTAGCACCCA					
7260	7250	7240	7230	7220	7210
	AGTGGGAATA				il
00:10011101			0100110110	0.10.2.0.10.	00.2.000.22.
7320	7310	7300	7290	7280	7270
	ACGGTCAATG				1
		2111200000			
7380	7370	7360	7350	7340	7330
CTGAGGGCTA					H
					14

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0 7440 G CTCCAGGCAA	7430 CATCAAGCAG			7400 ACAGCATCTG	7390 TTGAGGCGCA
0 7500 T TGGGGTTGCT		7480 ATCAACAGCT	7470 TACCTAAAGG	7460 TGTGGAAAGA	7450 GAATCCTGGC
0 7560 I AATAAATCTC		7540 CTTGGAATGC		7520 CATTTGCACC	7510 CTGGAAAACT
0 7620 F AACAATTACA		7600 TGGAGTGGGA		7580 TTGGAATAAC	7570 TGGAACAGAT
0 7680 G AATGAACAAG		7660 CGAAAACCA		7640 ACATTCCTTA	7630 CAAGCTTAAT
0 7740 A ACAAATTGGC		7720 TGTGGAATTG			7690 AATTATTGGA
0 7800 A AGAATAGTTT		7780 TAGGAGGCTT			7750 TGTGGTATAT
0 7860 A TCGTTTCAGA	7850 TTCACCATTA				7810 TTGCTGTACT
0 792.0 A GAAGGTGGAG		7900 GGCCCGAAGG			7870 CCCACCTCCC
0 7980 F ATCTGGGACG			7950 ATTCGATTAG	7940 AGACAGATCC	7930 AGAGAGACAG
0 8040 F CTTGATTGTA		8020 CACCGCTTGA		8000 CCTTGTGCCT	7990 ATCTGCGGAG
0 8100 A TTGGTGGAAT		8080 GGGTGGGAAG	8070 GGGACGCAGG	8060 TGGAACTTCT	8050 ACGAGGATTG
		AA.	8130 GGAACTAAAG	8120 ATTGGAGTCA	8110 CTCCTACAGT

144. (previously presented) A cloned DNA of Human Immunodeficiency Virus

Type 1 (HIV-1), wherein the DNA comprises the sequence

CTCAATAAAGCTTGCCTTG, and the DNA comprises the sequence:

6100 6110 6120 GAATGC TACTAATACC AATAGTAGTA

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6130 6140 6150 6160 6170 6180 ATACCAATAG TAGTAGCGGG GAAATGATGA TGGAGAAAGG AGAGATAAAA AACTGCTCTT

6190 6200 TCAATATCAG CACAAGCATA.

145. (previously presented) A cloned DNA of Human Immunodeficiency Virus

Type 1 (HIV-1), wherein the DNA comprises the sequence

CTCAATAAAGCTTGCCTTG, and the DNA comprises the sequence:

6260 6270 6280 6290 6300 T AATGATACTA CCAGCTATAC GTTGACAAGT TGTAACACCT

6310 CAGTCATTAC.

146. (previously presented) A cloned DNA of Human Immunodeficiency Virus

Type 1 (HIV-1), wherein the DNA comprises the sequence

CTCAATAAAGCTTGCCTTG, and the DNA comprises the sequence:

6390 6400 6410 6420 A ATAATAAGAC GTTCAATGGA ACAGGACCAT

6430 6440 GTACAAATGT CAGCACAGTA.

147. (previously presented) A cloned DNA of Human Immunodeficiency Virus

Type 1 (HIV-1), wherein the DNA comprises the sequence

CTCAATAAAGCTTGCCTTG, and the DNA comprises the sequence:

6490 6500 6510 6520 6530 6540 GTTGAA TGGCAGTCTA GCAGAAGAAG AGGTAGTAAT TAGATCTGCC AATTTCACAG

6550 6560 6570 6580 6590 6600 ACAATGCTAA AACCATAATA GTACAGGCTGA ACCAATCTGT AGAAATTAAT TGTACAAGAC

6610 6620 CCAACAACAA TACAAGAAAA.

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148. (previously presented) A cloned DNA of Human Immunodeficiency Virus

Type 1 (HIV-1), wherein the DNA comprises the sequence

CTCAATAAAGCTTGCCTTG, and the DNA comprises the sequence::

6860 6870 6880 6890 6900 T AATTCAACAC AACTGTTTAA TAGTACTTGG TTTAATAGTA

6910 6920 6930 CTTGGAGTAC TGAAGGGTCA AATAACACTG.

149. (previously presented) A cloned DNA of Human Immunodeficiency Virus

Type 1 (HIV-1), wherein the DNA comprises the sequence

CTCAATAAAGCTTGCCTTG, and the DNA comprises the sequence:

7540 7550 7560 GAATGC TAGTTGGAGT AATAAATCTC

7570 7580 7590 7600 7610 7620 TGGAACAGAT TTGGAATAAC ATGACCTGGA TGGAGTGGGA CAGAGAAATT AACAATTACA

CAAGCTTAAT.

- 150. (new) A method of using the cloned DNA of any of claims 142-149 to detect HIV-1 RNA comprising:
 - (a) providing a biological fluid comprising HIV-1 infected cells;
 - (b) preparing a cell-free supernatant from the biological fluid;
 - (c) isolating HIV-1 virions from the cell-free supernatant;
 - (d) disrupting the virions to release HIV-1 RNA;
 - (e) contacting the HIV-1 RNA with the HIV-1 DNA of any of claims 142-149; and
 - (f) detecting hybridization between the HIV-1 RNA and the HIV-1 DNA.
- 151. (new) A method of making HIV-1 nucleic acid hybridizable with the cloned DNA of any of claims 142-149 comprising:
 - (a) providing a biological fluid comprising HIV-1 infected cells;

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- (b) preparing a cell-free supernatant from the biological fluid;
- (c) isolating HIV-1 virions from the cell-free supernatant; and
- (d) disrupting the virions to release HIV-1 RNA.

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